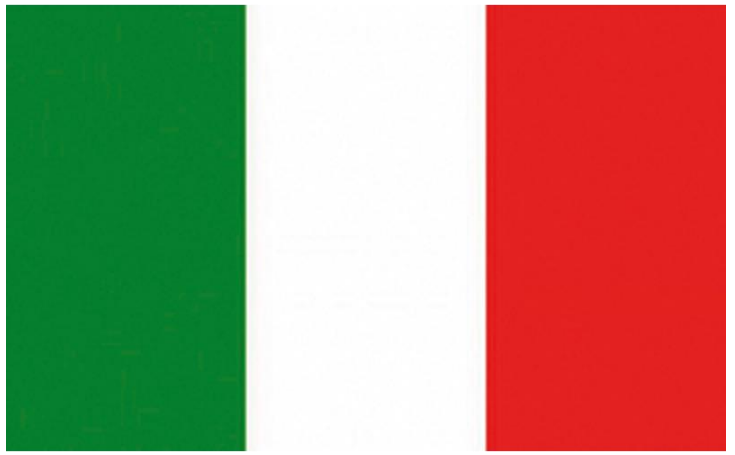
Result for Pisa Master Class



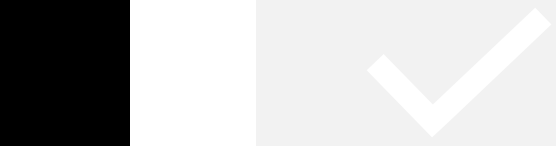
Tuscany, Italy

Liceo Scientifico Antonio Vallisneri, Lucca
Liceo Statale Coluccio Salutati

21 students

Result for Pisa Master Class

Proton an carbon ion treatment plan for a liver patient

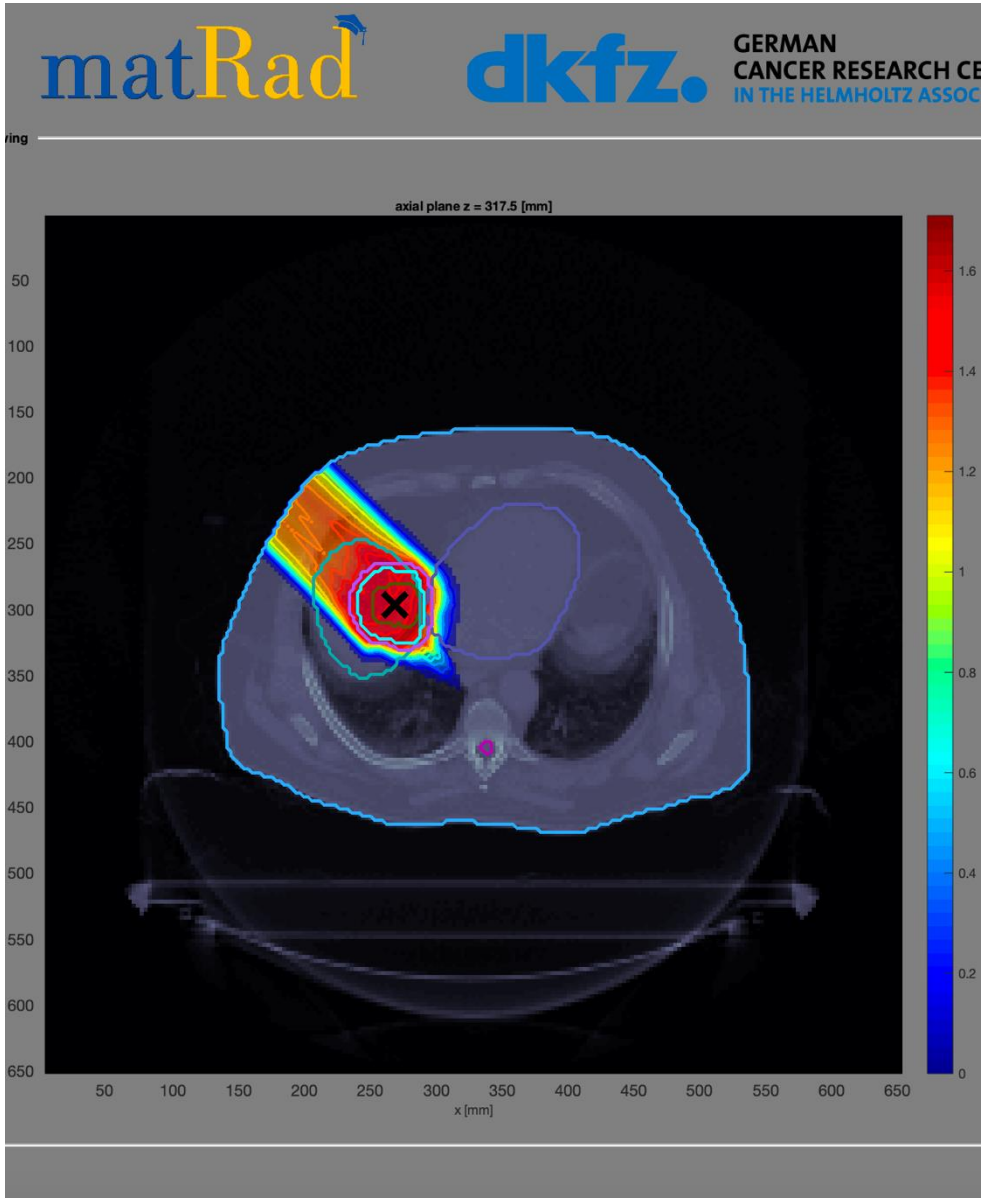


Calculated treatment plan (1 directions, 5 directions)

Analysing and comparing diferent treatment plans

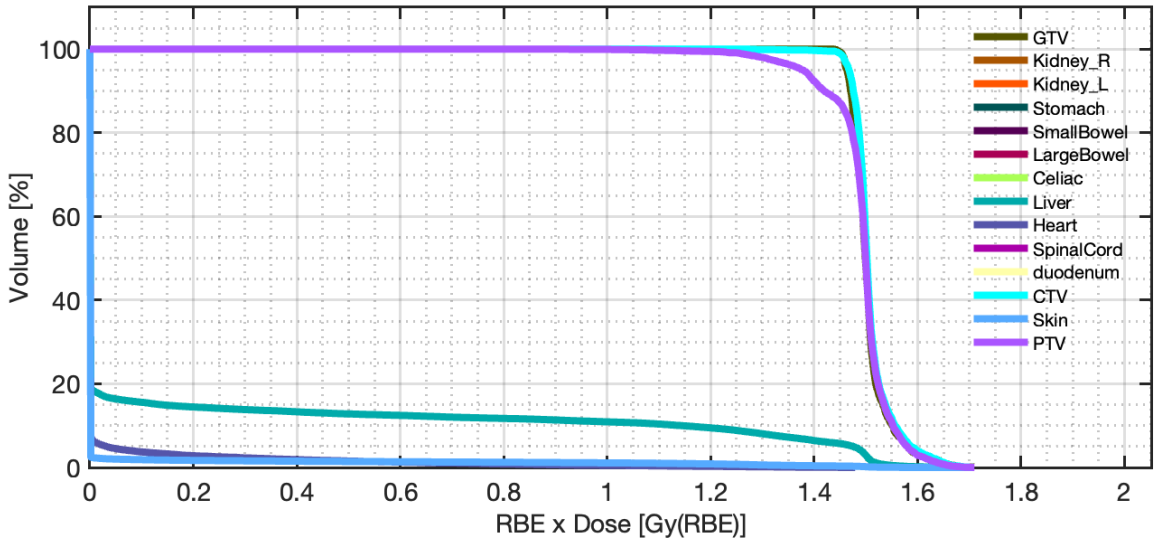
Result for Pisa Master Class

Protons, 1 direction



Result for Pisa Master Class

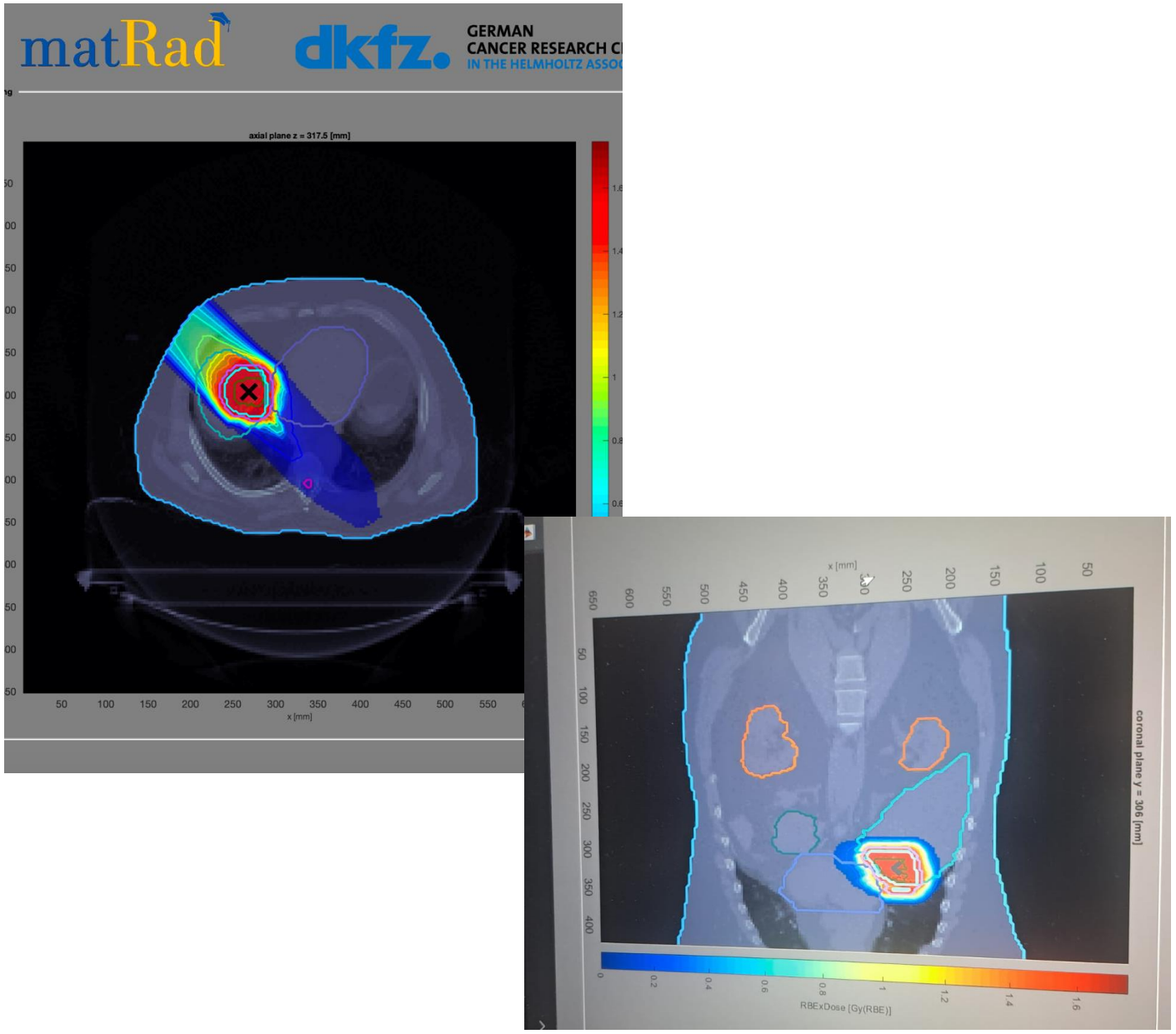
Protons, 1 direction



	max	min	mean	std
GTV	1.7104	1.4399	1.5058	0.0369
Kidney_R	0	0	0	0
Kidney_L	0	0	0	0
Stomach	0	0	0	0
SmallBowel	0	0	0	0
LargeBowel	0	0	0	0
Celiac	0	0	0	0
Liver	1.7104	0	0.1746	0.4440
Heart	1.4802	0	0.0202	0.1203
SpinalCord	0	0	0	0
duodenum	0	0	0	0
CTV	1.7104	1.2759	1.5099	0.0387
Skin	1.7104	0	0.0184	0.1468
PTV	1.7104	0.9010	1.4924	0.0658

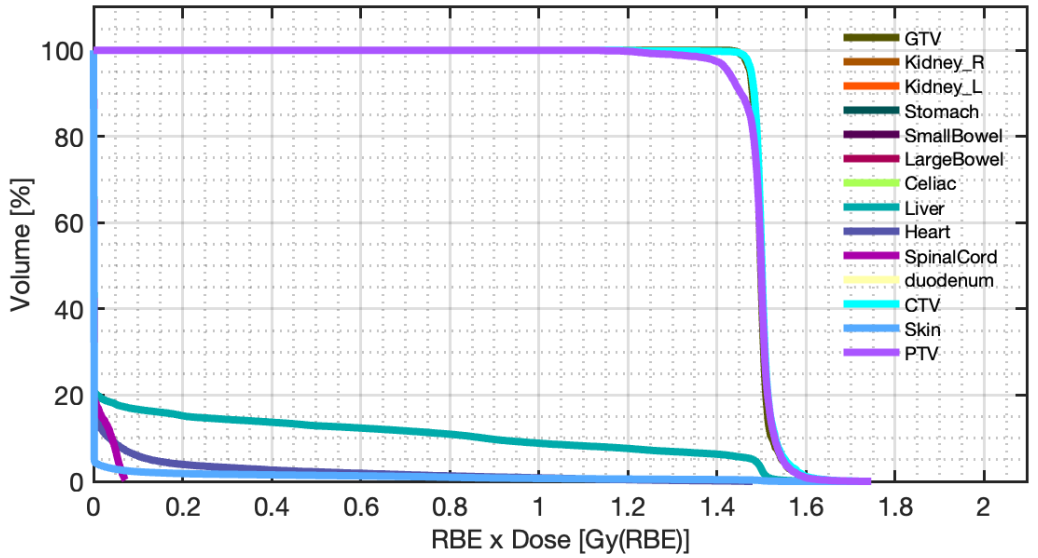
Result for Pisa Master Class

Carbon, 1 direction



Result for Pisa Master Class

Carbon, 1 direction

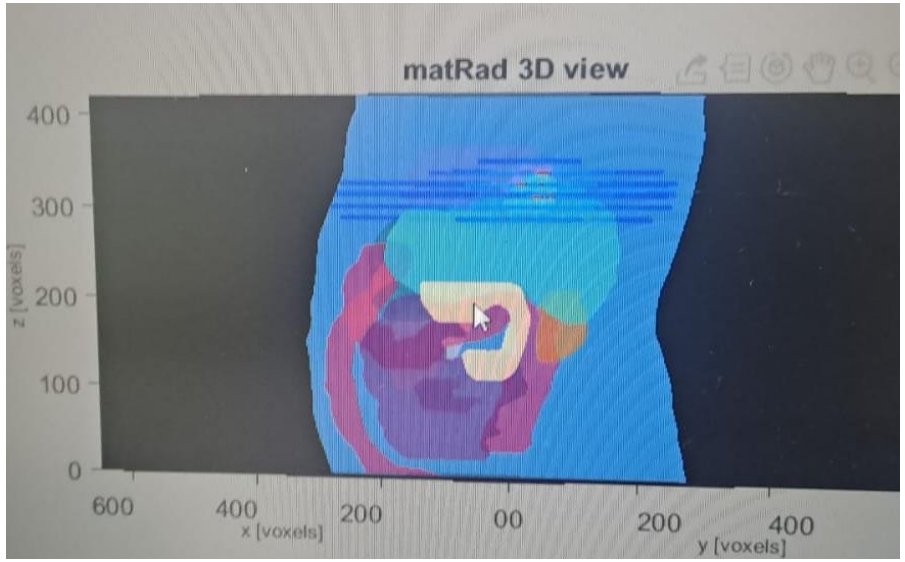


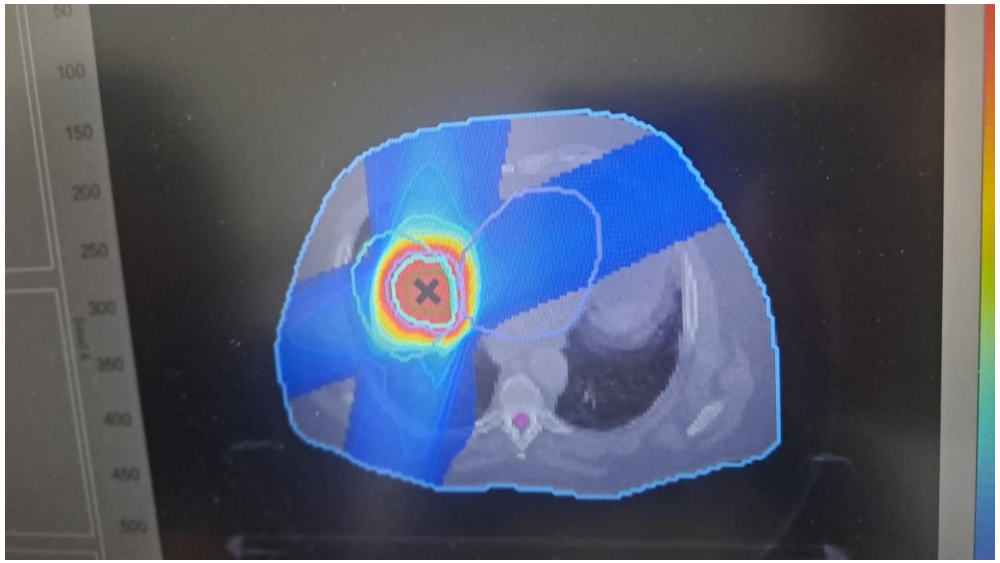
	max	min	mean	std
GTV	1.6705	1.4317	1.5013	0.0240
Kidney_R	0	0	0	0
Kidney_L	0	0	0	0
Stomach	0	0	0	0
SmallBowel	0	0	0	0
LargeBowel	0	0	0	0
Celiac	0	0	0	0
Liver	1.7469	0	0.1682	0.4225
Heart	1.4805	0	0.0318	0.1453
SpinalCord	0.0728	0	0.0076	0.0178
duodenum	0	0	0	0
CTV	1.7469	1.1892	1.5048	0.0284
Skin	1.7469	0	0.0173	0.1310
PTV	1.7469	1.1107	1.4944	0.0445

Result for Pisa Master Class

Carbon, 5 directions

After 40 minutes





2 of 21 computers crashed